ELSEVIER

Volume 483, Numbers 1–2, 13 December 1994

Journal of Organometallic Chemistry

Contents

Regular Papers

The preparation of the mixed thiolato–isocyanide complexes *cis*- and *trans*-(η^5-C_5H_5)W(CO)$_2$(SR)(CNR'): the structure of *trans*-(η^5-C_5H_5)W(CO)$_2$(S-4-C_6H_4Me)(CNCMe$_3$)
A. Shaver, R.C. Hynes and D. Trojansek (Quebec, Canada) 1

Synthesis, X-ray crystal structure, and redox properties of CpRu(NO)(mnt)
K. Yang, S.G. Bott and M.G. Richmond (Denton, TX, USA) 7

Synthesis of M^0(η^2-dppf)$_2$ (M = Pd, Pt; dppf = Fe($C_5H_4PPh_2$)$_2$) and their reactions with $Fe_3(\mu_3\text{-}S)_2(CO)_9$ and elemental sulfur
Z.-G. Fang, P.M.N. Low, S.-C. Ng and T.S.A. Hor (Kent Ridge, Singapore) 17

Synthesis and structure of [(C_5Me_5)$_2$Sm(THF)]$_2$(μ-η^1 : η^1-C_2)
W.J. Evans, G.W. Rabe and J.W. Ziller (Irvine, CA, USA) 21

Ether- and amine-substituted cyclopentadienes as ligands in organometallic compounds: examples for iron and barium
W.S. Rees, Jr., U.W. Lay and K.A. Dippel (Tallahassee, FL, USA) 27

Semipräparative Trennung gemischt substituierter Octa-(organylsilsesquioxane) mittels Normal-Phase-HPLC und ihre ^{29}Si-NMR-spektroskopische Untersuchung
B.J. Hendan und H.C. Marsmann (Paderborn, Deutschland) 33

Synthesis and X-ray crystal structure of nitrogen base adducts of decamethylsamarocene: (C_5Me_5)$_2$Sm(NH_2CMe_3) and (C_5Me_5)$_2$Sm(N-MeIm)$_2$
W.J. Evans, G.W. Rabe and J.W. Ziller (Irvine, CA, USA) 39

Oxo and thiophosphoramides of niobocene or tantalocene as organometallic ligands: synthesis of heterobimetallic complexes [Cp_2M(CO)(μ, η^1 : η^1-PR_2X)M'L_n] (M = Nb or Ta; X = O or S; M' = Cr, Mo, W, Mn, Fe or Sn)
S. Challet, M.M. Kubicki, J.-C. Leblanc, C. Moïse (Dijon, France) and B. Nuber (Heidelberg, Germany) 47

Syntheses and molecular structure of (C_8H_8)Ln(2,4-C_7H_{11}) · THF (Ln = Nd, Er)
S. Zhang, J. Jin, G. Wei, W. Chen and J. Liu (Changchun, People's Republic of China) 57

Schiff bases derived from benzoylferrocene and their cyclopalladated derivatives. X-Ray crystal structure of [Pd{(η^5-C_5H_5)Fe[(η^5-C_5H_3)-C(C_6H_5)=N-C_6H_5]}Cl(PPh_3)]
R. Bosque, C. López, J. Sales and X. Solans (Barcelona, Spain) 61

Hydrogen elimination in the thermal decomposition of iridium-*n*-alkyl complexes
C. Bergwall and E.J. Parsons (Clemson, SC, USA) 73

Structural and NMR spectroscopic characterization of η^3-Benzyl palladium(II) complexes
G. Gatti (Milano, Italy), J.A. López, C. Mealli (Firenze, Italy) and A. Musco (Urbino, Italy) 77

Nucleophilic reactions of (η^5-C_5H_5)Mo(CO)$_2$(η^3-C_6H_7)
T.-F. Wang, M.-C. Lee and Y.-S. Wen (Taipei, Taiwan) 91

Synthesis and characterization of new titanium(II) carbonyls of stoichiometry $TiX_2(CO)_2(dmpe)_2$: an NMR study
M.D. Spencer and G.S. Girolami (Urbana, IL, USA) 99

Dehydrogenation of organolanthanide alkoxides and X-ray crystal structures of the reaction product [{(C_5H_5)$_2$Ln(μ-O(Me)C=$CHCH_3$)}$_2$] (Ln = Dy, Yb)
Z. Wu, Z. Xu, X. You (Jiangsu, China), X. Zhou (Anhui, China) and X. Huang (Fujian, China) 107

Synthesis and electrophilic reactivity of [{η^5-1-*N*(CH_2CH_2O)$_3$Si-6-Me-C_6H_5}Mn(CO)$_2$NO]BF_4
S.S. Lee, E. Jeong and Y.K. Chung (Seoul, South Korea) 115

Synthesis, characterization and spectroscopic investigations of tin(IV) and organotin(IV) derivatives of 4-aroyl-5-pyrazolones. Crystal structure of *trans*-dimethylbis[1-phenyl-3-methyl-4-(4-bromobenzoyl)-pyrazolon-5-ato]tin(IV)
C. Pettinari, F. Marchetti, D. Leonesi (Macerata, Italy), M. Rossi (Poughkeepsie, NY, USA) and F. Caruso (Roma, Italy) 123

Synthesis, characterization and structure of cyclopalladated ferrocenylketimines
S.Q. Huo, Y.J. Wu, C.X. Du (Zhengzhou, People's Republic of China), Y. Zhu (Lanzhou, People's Republic of China), H.Z. Yuan and X.A. Mao (Wuhan, People's Republic of China) 139

Stereochemical pattern of phosphine oxidation by a peroxometallacyclic platinum complex. Evidence of an intramolecular process
G. Paiaro, L. Pandolfo, F. Morandini and S.D. Fioretto (Padova, Italy) 147

Mercury coordination to Exo-dithio-7,8-dicarba-*nido*-undecaborate derivatives
F. Teixidor, J.A. Ayllón, C. Viñas (Barcelona, Spain), R. Kivekäs (Helsinki, Finland), R. Sillanpää (Turku, Finland) and J. Casabó (Barcelona, Spain) 153

The influence of steric and electronic effects of substituents on the cyclopentadienyl ring on the behaviour of $(CpR)_2TiCl_2$ and $(CpR)CpTiCl_2/Et_3Al_2Cl_3$ catalysts in polymerization of ethene
P.C. Möhring, N. Vlachakis, N.E. Grimmer and N.J. Coville (Johannesburg, South Africa) 159

Redox behaviour and reactions of $(PhCH_2)_3Sb$; syntheses and structures of $[(PhCH_2)_3SbMe]I$ and $[(PhCH_2)_3SbMe]_3Sb_3I_{12}$
H.J. Breunig, K.H. Ebert, R. Kaller (Bremen, Germany), Y. Mourad, A. Atmani (Atlas-Fes, Morocco) and Y. Mugnier (Dijon, France). 167

Group 4 metallocene complexes bearing cholestanol-derived substituents at the Cp-rings—their synthesis and use in propene polymerization catalysis
G. Erker and C. Mollenkopf (Münster, Germany). 173

Synthese und Charakterisierung von Poly(dichlorsilylen-co-dichlormethylen) und Poly(dimethylsilylen-co-2,2-propylen)
W. Habel, W. Haeusler und P. Sartori (Duisburg, Deutschland). 183

Cyclometallated platinum(II) and platinum(IV) compounds of N-benzylidene-2-chlorobenzylamine. Crystal structure of $[PtMe(PPh_3)(C_6H_4CH{=}NCH_2C_6H_4Cl\text{-}2)]$
M. Crespo, X. Solans and M. Font-Bardía (Barcelona, Spain) 187

Molekülstruktur und Ladungsverteilung in metallorganischen Verbindungen der f-Elemente VII. Synthese und Untersuchungen von 1:1-Addukten zwischen Tris(cyclopentadienyl)Lanthanoid(III)-Verbindungen und Triethylphosphat
B. Kanellakopulos, R. Von Ammon, C. Apostolidis, E. Dornberger, R. Maier, J. Müller (Karlsruhe, Deutschland) und X. Zhang (Beijing, China) 193

Synthesis, characterization and crystal structures of $[Mo(CO)_5]_4$TPTA and $[W(CO)_5]_4$TPTA (TPTA = 1,4,8,11-tetrakis(methyldiphenylphosphino)-1,4,8,11-tetraazacyclotetradecane)
P. Planinić, H. Meider and D. Matković-Čalogović (Zagreb, Croatia). 205

Selective intramolecular cleavage of the carbon–silicon bond by palladium salts
J.-M. Valk, J. Boersma and G. Van Koten (Utrecht, The Netherlands). 213

Reaktionen subvalenter Verbindungen des Siliciums mit alkylierten Aromaten
F. Huppmann, M. Noltemeyer und A. Meller (Göttingen, Deutschland) 217

Asymmetric diarsines: Synthesis of dimeric pentamethylcyclopentadienylchloroarsine, dimeric pentamethylcyclopentadienyl(methyl)arsine and the crystal structure of dimeric pentamethylcyclopentadienyl(methyl)arsine
X.-W. Li, J. Lorberth and K. Harms (Marburg, Germany) 229

Preliminary Communication

Highly regio- and stereo-controlled hydroformylation of *ortho*-substituted (η^6-styrene)chromium complexes
J. Brocard, L. Pélinski, L. Maciejewski, S. Naïli, H. Bricout, A. Mortreux and F. Petit (Villeneuve d'Ascq, France). C1

Book Reviews C6

Author Index C9

Subject Index C11

The publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. A leaflet describing our requirements is available from the publisher upon request.